

To: Foresman, Erin[Foresman.Erin@epa.gov]; Cantrell, Scott@Wildlife[Scott.Cantrell@wildlife.ca.gov]; Bobker, Gary[bobker@sbcglobal.net]; Harader, Sam@DeltaCouncil[sam.harader@deltacouncil.ca.gov]; Holland, Matt@DeltaCouncil[Matt.Holland@deltacouncil.ca.gov]; Bartolomeo, Eleanor@Waterboards[Eleanor.Bartolomeo@waterboards.ca.gov]; Guy, David@norcalwater.org[dguy@norcalwater.org]; dsereno@ccwater.com[dsereno@ccwater.com]; bobker@bay.org[bobker@bay.org]; jon.tbi@gmail.com[jon.tbi@gmail.com]; Dorn, Linda (SDA)[dornl@sacsewer.com]; Mortazavi, Emily@DeltaCouncil[Emily.Mortazavi@deltacouncil.ca.gov]; Nader-Tehrani, Parviz@DWR[Parviz.Nader-Tehrani@water.ca.gov]; Riddle, Diane@Waterboards[Diane.Riddle@waterboards.ca.gov]; Fujii, Roger[rfujii@usgs.gov]; Satkowski, Rich@Waterboards[Rich.Satkowski@waterboards.ca.gov]; Azimi-Gaylon, Shakoora@SSJDC[Shakoora.Azimi-Gaylon@deltaconservancy.ca.gov]; Fong, S@SFCWA[sfong@sfcwa.org]; Vendlinski, Tim[vendlinski.tim@epa.gov]; tmanley@norcalwater.org[tmanley@norcalwater.org]; lwinternitz@tnc.org[lwinternitz@tnc.org]
From: Mussen, Timothy (SDA)
Sent: Thur 11/21/2013 12:29:52 AM
Subject: RE: Delta Outflows Planning Group - video recommendations
[SWRCB 2012 workshop video spreadsheet_TM.xlsx](#)

Hello Matt and Sam,

The following presentations would provide important background information on how Delta outflows could affect native species or ecosystem function.

Wim Kimmerer – Ecological and trophic responses to Delta outflow and other factors

Jim Cloern / Alan Jassby – Delta outflow and other drivers of ecological change in the Bay-Delta

Peter Moyle - Delta outflow management to restore native fish populations

Jon Rosenfield – The importance of Delta outflow to native species recovery

Matt Nobriga – The effect of flow on delta smelt survival and entrainment

The 2012 Flow Workshop had presentations by Kimmerer, Cloern, Rosenfield, and Nobriga that could be used if there is insufficient time/availability for updated presentations (I have highlighted my suggested presentations in blue on the excel sheet). I believe we would need to ask Peter Moyle to provide a new presentation.

I also agree with Erin that the Natural Hydrograph Seminar at UC Davis (1/18/2013) provided

good information. In particular I recommend Sarah Yarnell's presentation *Ecological Response to the Unregulated Spring Flow Regime in California's Sierra Nevada*. The presentation is available online <http://webcast.ucdavis.edu/llnd/8202cf3>.

Cheers,

Tim

Timothy D. Mussen, Ph.D

Scientist

Sacramento Regional County Sanitation District

10060 Goethe Road

Sacramento, CA 95827

916-875-4344

From: Foresman, Erin [mailto:Foresman.Erin@epa.gov]

Sent: Wednesday, November 20, 2013 2:02 PM

To: Cantrell, Scott@Wildlife; Bobker, Gary; Harader, Sam@DeltaCouncil; Holland, Matt@DeltaCouncil; Bartolomeo, Eleanor@Waterboards; Guy, David@norcalwater.org; dsereno@ccwater.com; bobker@bay.org; jon.tbi@gmail.com; Dorn, Linda (SDA); Mortazavi, Emily@DeltaCouncil; Mussen, Timothy (SDA); Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; Vendlinski, Tim; tmanley@norcalwater.org; lwinternitz@tnc.org

Subject: RE: Delta Outflows Planning Group - video recommendations

I highlighted my suggestions in light green in the excel spreadsheet.

I also recommend considering a number of the presentations from the CABA Seminar "What is a Natural Hydrograph in Regulated Rivers". The presentations are provided in PDF here <http://deltacouncil.ca.gov/node/8179> and video is here <http://webcast.ucdavis.edu/llnd/8202cf3>. Chris Enright, Bruce Herbold, and Geoffrey Petts provide presentations that may be useful preliminary material for the panel. This workshop was great because a lot of the presentations

were v. good and discussions were great – especially the panel discussion. Sarah Yarnell's presentation was also v. good but maybe not right for the preliminary material for the panel.

Last I second one of Gary's recommendations, pasted below.

Also, per my comments at our last meeting, if the following leading Bay-Delta scientists are not available to present directly to (and interact with) the panel, they should be videotaped in advance:

Alan Jassby
Wim Kimmerer
Jim Cloern

these three are probably the most knowledgeable in terms of overall changes in winter-spring outflow/salinity, the relationships between outflow/salinity and biotic response (primary and secondary productivity, population viability and community composition, invasive species), and related topics

Steve Culberson and/or Chris Enright on historic changes in outflow/salinity

Fred Feyrer and/or Lenny Grimaldo on fall outflow (since this involves different data and interpretations than those underpinning the larger winter-spring outflow issues)

Erin Foresman, Environmental Scientist

USEPA Region 9

C/O NMFS 650 Capitol Mall

Sacramento, CA 95814

916-930-3722

Schedule: M 7:30a - 4:00p; T - F 7:30a - 2:00p

From: Cantrell, Scott@Wildlife [<mailto:Scott.Cantrell@wildlife.ca.gov>]

Sent: Tuesday, November 19, 2013 1:51 PM

To: Bobker, Gary; Harader, Sam@DeltaCouncil; Holland, Matt@DeltaCouncil; Bartolomeo,

Eleanor@Waterboards; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin; bobker@bay.org; jon.tbi@gmail.com; dornl@sacsewer.com; Mortazavi, Emily@DeltaCouncil; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; Vendlinski, Tim; tmanley@norcalwater.org; lwinternitz@tnc.org

Subject: RE: Delta Outflows Planning Group - video recommendations

My suggestions are highlighted in yellow.

From: Gary Bobker [<mailto:bobker@sbcglobal.net>]

Sent: Tuesday, November 19, 2013 12:10 PM

To: Harader, Sam@DeltaCouncil; Holland, Matt@DeltaCouncil; Bartolomeo, Eleanor@Waterboards; Cantrell, Scott@Wildlife; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin@epa; bobker@bay.org; jon.tbi@gmail.com; dornl@sacsewer.com; Mortazavi, Emily@DeltaCouncil; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; vendlinski.tim@epa.gov; tmanley@norcalwater.org; lwinternitz@tnc.org

Subject: Re: Delta Outflows Planning Group - video recommendations

Sam and Matt,

for some reason, Jon Rosenfield's presentation at workshop 1 (on the LSZ and ecosystem changes) is one of the only video presentations not available. For that reason, I request that his written testimony (attached) be provided to the panel. The document is a comprehensive review of recent literature and findings on the subject.

Also, per my comments at our last meeting, if the following leading Bay-Delta scientists are not available to present directly to (and interact with) the panel, they should be videotaped in advance:

Alan Jassby
Wim Kimmerer
Jim Cloern

these three are probably the most knowledgeable in terms of overall changes in winter-spring outflow/salinity, the relationships between outflow/salinity and biotic response (primary and secondary productivity, population viability and community composition, invasive species), and related topics

Steve Culberson and/or Chris Enright on historic changes in outflow/salinity

Fred Feyrer and/or Lenny Grimaldo on fall outflow (since this involves different data and interpretations than those underpinning the larger winter-spring outflow issues)

cheers,

Gary

Gary Bobker, Program Director
The Bay Institute
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San Francisco, CA 94133

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main office email: bobker@bay.org
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From: "Harader, Sam@DeltaCouncil" <sam.harader@deltacouncil.ca.gov>
To: "Holland, Matt@DeltaCouncil" <Matt.Holland@deltacouncil.ca.gov>; "Bobker, Gary" <bobker@sbcglobal.net>; "Bartolomeo, Eleanor@Waterboards" <Eleanor.Bartolomeo@waterboards.ca.gov>; "Cantrell, Scott@Wildlife" <Scott.Cantrell@wildlife.ca.gov>; "Guy, David@norcalwater.org" <dguy@norcalwater.org>; "dsereno@ccwater.com" <dsereno@ccwater.com>; "Foresman, Erin@epa" <foresman.erin@epamail.epa.gov>; "bobker@bay.org" <bobker@bay.org>; "jon.tbi@gmail.com" <jon.tbi@gmail.com>; "dornl@sacsewer.com" <dornl@sacsewer.com>; "Mortazavi, Emily@DeltaCouncil" <Emily.Mortazavi@deltacouncil.ca.gov>; "Mussen, Tim@sacsewer.com" <mussent@sacsewer.com>; "Nader-Tehrani, Parviz@DWR" <Parviz.Nader-Tehrani@water.ca.gov>; "Riddle, Diane@Waterboards" <Diane.Riddle@waterboards.ca.gov>; "Fujii, Roger" <rfujii@usgs.gov>; "Satkowski, Rich@Waterboards" <Rich.Satkowski@waterboards.ca.gov>; "Azimi-Gaylon, Shakoora@SSJDC" <Shakoora.Azimi-Gaylon@deltaconservancy.ca.gov>; "Fong, S@SFCWA" <sfong@sfcwa.org>; "vendlinski.tim@epa.gov" <vendlinski.tim@epa.gov>; "tmanley@norcalwater.org" <tmanley@norcalwater.org>; "lwinternitz@tnc.org" <lwinternitz@tnc.org>; "Bobker, Gary" <bobker@sbcglobal.net>
Sent: Friday, November 15, 2013 3:06 PM
Subject: Delta Outflows Planning Group - video recommendations

Dear Planning Group,

As we discussed earlier today, please send us your top 5 recommended video presentations for our panel to view in advance of the February workshop. These can include video presentations that are currently available online or presentations that you would like to see produced (soon). We expect to distill this

down to a list of no more than 6-10 presentations and get the panel started on these within the next two weeks. Keep in mind that ideally these should be foundational, background kinds of presentations. Presentations that you think will stimulate a lot of discussion and where you think it would be productive to have dialogue between presenters and the panel should be reserved for the workshop in February.

The table of presentations from the SWRCB fall workshops is attached to help you with your selection. You can also recommend video presentations from other seminars/workshops as long as they are readily available. Let us know if you have questions. Thanks. –Sam

Sam Harader

Delta Stewardship Council

Delta Science Program

980 Ninth Street, Suite 1500

Sacramento, CA 95814

916-445-5466

sam.harader@deltacouncil.ca.gov

From: Holland, Matt@DeltaCouncil

Sent: Friday, November 15, 2013 1:38 PM

To: Bobker, Gary; Bartolomeo, Eleanor@Waterboards; Cantrell, Scott@Wildlife; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin@epa; bobker@bay.org; Harader, Sam@DeltaCouncil; jon.tbi@gmail.com; dornl@sacsewer.com; Mortazavi, Emily@DeltaCouncil; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; vendlinski.tim@epa.gov; tmanley@norcalwater.org; lwinternitz@tnc.org; Bobker, Gary

Subject: RE: Reminder: Planning Group Meeting: Delta Outflows and Related Stressors

Hello all,

Please see attached. I made some slight changes to Gary's markup, and I think this reflects what we agreed to in today's meeting. Don't hesitate to let me know if we have missed anything.

Best,

Matt

From: Gary Bobker [<mailto:bobker@sbcglobal.net>]

Sent: Friday, November 15, 2013 11:23 AM

To: Holland, Matt@DeltaCouncil; Bartolomeo, Eleanor@Waterboards; Cantrell, Scott@Wildlife; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin@epa; bobker@bay.org; Harader, Sam@DeltaCouncil; jon.tbi@gmail.com; dornl@sacsewer.com; Mortazavi, Emily@DeltaCouncil; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; vendlinski.tim@epa.gov; tmanley@norcalwater.org; lwinternitz@tnc.org

Subject: Re: Reminder: Planning Group Meeting: Delta Outflows and Related Stressors

here's my markup of the charge questions with the changes we just discussed (I may have missed something since I talk while typing...)

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main office email: bobker@bay.org
home office email: bobker@sbcglobal.net

From: "Holland, Matt@DeltaCouncil" <Matt.Holland@deltacouncil.ca.gov>

To: "Bartolomeo, Eleanor@Waterboards" <Eleanor.Bartolomeo@waterboards.ca.gov>; "Cantrell, Scott@Wildlife" <Scott.Cantrell@wildlife.ca.gov>; "Guy, David@norcalwater.org" <dguy@norcalwater.org>; "dsereno@ccwater.com" <dsereno@ccwater.com>; "Foresman, Erin@epa" <foresman.erin@epamail.epa.gov>; "bobker@bay.org" <bobker@bay.org>; "Harader, Sam@DeltaCouncil" <sam.harader@deltacouncil.ca.gov>; "jon.tbi@gmail.com" <jon.tbi@gmail.com>; "dornl@sacsewer.com" <dornl@sacsewer.com>; "Mortazavi, Emily@DeltaCouncil" <Emily.Mortazavi@deltacouncil.ca.gov>; "Mussen, Tim@sacsewer.com" <mussent@sacsewer.com>; "Nader-Tehrani, Parviz@DWR" <Parviz.Nader-Tehrani@water.ca.gov>; "Riddle, Diane@Waterboards" <Diane.Riddle@waterboards.ca.gov>; "Fujii, Roger" <rfujii@usgs.gov>; "Satkowski, Rich@Waterboards" <Rich.Satkowski@waterboards.ca.gov>; "Azimi-Gaylon, Shakoora@SSJDC" <Shakoora.Azimi-Gaylon@deltaconservancy.ca.gov>; "Fong, S@SFCWA" <sfong@sfcwa.org>; "vendlinski.tim@epa.gov" <vendlinski.tim@epa.gov>; "tmanley@norcalwater.org" <tmanley@norcalwater.org>; "lwinternitz@tnc.org" <lwinternitz@tnc.org>; "Bobker, Gary" <bobker@sbcglobal.net>
Sent: Friday, November 15, 2013 9:33 AM
Subject: RE: Reminder: Planning Group Meeting: Delta Outflows and Related Stressors

Dear Colleagues,

Please find attached a track changes and clean version of the charge questions. I will have copies of both at today's meeting.

Best,

Matt

From: Holland, Matt@DeltaCouncil
Sent: Thursday, November 14, 2013 4:10 PM
To: Bartolomeo, Eleanor@Waterboards; Cantrell, Scott@Wildlife; Guy, David@norcalwater.org; dsereno@ccwater.com; Foresman, Erin@epa; bobker@bay.org; Harader, Sam@DeltaCouncil; Holland, Matt@DeltaCouncil; jon.tbi@gmail.com; dornl@sacsewer.com; Mortazavi, Emily@DeltaCouncil; Mussen, Tim@sacsewer.com; Nader-Tehrani, Parviz@DWR; Riddle, Diane@Waterboards; Fujii, Roger; Satkowski, Rich@Waterboards; Azimi-Gaylon, Shakoora@SSJDC; Fong, S@SFCWA; vendlinski.tim@epa.gov; tmanley@norcalwater.org; lwinternitz@tnc.org
Subject: Reminder: Planning Group Meeting: Delta Outflows and Related Stressors

Dear Colleagues,

This is a reminder that we have a planning group meeting tomorrow, Friday November 15 in Room C of the Second Floor Conference Center at 980 Ninth St, Sacramento (our usual meeting

location). I have attached a brief agenda. Primarily we will be discussing how we have tried to incorporate your input into the charge questions, seeking guidance on a few remaining details of the charge questions, and discussing presentations to provide to the panel prior to the public workshop.

I will provide the meeting materials by email in the morning, and will provide copies at the meeting. I understand that this is not ideal, but we have been working hard to incorporate your input during this short week.

Please let me know if you have any requested additions to the agenda.

Best,

Matt

Matt Holland

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Delta Science Program

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